

In the Claims:

1-10. (Cancelled)

11. (Previously Presented) A recombinant host cell comprising a recombinant DNA construct encoding the antifungal protein as set forth in SEQ ID NO:4, wherein said host cell is selected from the group consisting of a bacterial cell, and a plant cell.

12. (Previously Presented) The recombinant host cell of claim 11 wherein said plant cell is selected from the group consisting of an Acacia, alfalfa, aneth, apple, apricot, artichoke, arugula, asparagus, avocado, banana, barley, beans, beet, blackberry, blueberry, broccoli, brussels sprouts, cabbage, canola, cantaloupe, carrot, cassava, castorbean, cauliflower, celery, cherry, chicory, cilantro, citrus, clementines, clover, coconut, coffee, corn, cotton, cucumber, Douglas fir, eggplant, endive, escarole, eucalyptus, fennel, figs, garlic, gourd, grape, grapefruit, honey dew, jicama, kiwifruit, lettuce, leeks, lemon, lime, Loblolly pine, linseed, mango, melon, mushroom, nectarine, nut, oat, oil palm, oil seed rape, okra, olive, onion, orange, an ornamental plant, palm, papaya, parsley, parsnip, pea, peach, peanut, pear, pepper, persimmon, pine, pineapple, plantain, plum, pomegranate, poplar, potato, pumpkin, quince, radiata pine, radicchio, radish, rapeseed, raspberry, rice, rye, sorghum, Southern pine, soybean, spinach, squash, strawberry, sugarbeet, sugarcane, sunflower, sweet potato, sweetgum, tangerine, tea, tobacco, tomato, triticale, turf, turnip, a vine, watermelon, wheat, yams, and zucchini plant cell.

13. (Previously Presented) A transgenic plant comprising a nucleotide sequence encoding the antifungal protein as set forth in SEQ ID NO:4.

14. (Previously Presented) Progeny, seed, or tissue from the plant as set forth in Claim 13, wherein said progeny, seed, or tissue comprise said nucleotide sequence.

15. (Previously Presented) The transgenic plant of claim 13, wherein the transgenic plant is an - Acacia, alfalfa, aneth, apple, apricot, artichoke, arugula, asparagus, avocado, banana, barley, beans, beet, blackberry, blueberry, broccoli, brussels sprouts, cabbage, canola, cantaloupe, carrot, cassava, castorbean, cauliflower, celery, cherry, chicory, cilantro, citrus, clementines, clover, coconut, coffee, corn, cotton, cucumber, Douglas fir, eggplant, endive, escarole, eucalyptus, fennel, figs, garlic, gourd, grape, grapefruit, honey dew, jicama, kiwifruit, lettuce, leeks, lemon, lime, Loblolly pine, linseed, mango, melon, mushroom, nectarine, nut, oat, oil palm, oil seed rape, okra, olive, onion, orange, an ornamental plant, palm, papaya, parsley, parsnip, pea, peach, peanut, pear, pepper, persimmon, pine, pineapple, plantain, plum, pomegranate, poplar, potato, pumpkin, quince, radiata pine, radicchio, radish,

rapeseed, raspberry, rice, rye, sorghum, Southern pine, soybean, spinach, squash, strawberry, sugarbeet, sugarcane, sunflower, sweet potato, sweetgum, tangerine, tea, tobacco, tomato, triticale, turf, turnip, a vine, watermelon, wheat, yams, or zucchini plant.

16. (Previously Presented) A method for preparing a transgenic plant comprising a recombinant DNA construct encoding the antifungal protein as set forth in SEQ ID NO:4, said method comprising:

- a) selecting a plant cell for transformation;
- b) transforming the plant cell with a nucleic acid sequence that encodes said antifungal protein;
- c) obtaining a transformed plant cell comprising said sequence; and
- d) regenerating a transgenic plant from the transformed plant cell.

17. (Previously Presented) The method of claim 16, wherein the nucleic acid sequence comprises SEQ ID NO:3 or hybridizes under stringent conditions to SEQ ID NO:3, or to the complement thereof.

18. (Previously Presented) The method of claim 17, wherein the nucleic acid sequence is a synthetic nucleic acid sequence.

19. (Previously Presented) The method of claim 16, wherein the plant exhibits resistance to a fungal pathogen.

20. (Previously Presented) The method of claim 16, wherein the plant cell is selected from the group consisting of an Acacia, alfalfa, aneth, apple, apricot, artichoke, arugula, asparagus, avocado, banana, barley, beans, beet, blackberry, blueberry, broccoli, brussels sprouts, cabbage, canola, cantaloupe, carrot, cassava, castorbean, cauliflower, celery, cherry, chicory, cilantro, citrus, clementines, clover, coconut, coffee, corn, cotton, cucumber, Douglas fir, eggplant, endive, escarole, eucalyptus, fennel, figs, garlic, gourd, grape, grapefruit, honey dew, jicama, kiwifruit, lettuce, leeks, lemon, lime, Loblolly pine, linseed, mango, melon, mushroom, nectarine, nut, oat, oil palm, oil seed rape, okra, olive, onion, orange, an ornamental plant, palm, papaya, parsnip, pea, peach, peanut, pear, pepper, persimmon, pine, pineapple, plantain, plum, pomegranate, poplar, potato, pumpkin, quince, radiata pine, radicchio, radish, rapeseed, raspberry, rice, rye, sorghum, Southern pine, soybean, spinach, squash, strawberry, sugarbeet, sugarcane, sunflower, sweet potato, sweetgum, tangerine, tea, tobacco, tomato, triticale, turf, turnip, a vine, watermelon, wheat, yams, and zucchini plant cell.

21. -24. (Cancelled)

25. (Previously Presented) The method of claim 19 wherein the fungal pathogen is selected from the group consisting of Phytophthora infestans, Fusarium graminearum, Fusarium moniliforme, Verticillium dahliae, and Stagonospora nodorum.

26. (Previously Presented) The method of claim 19 wherein the fungal pathogen is a Fusarium species or a Verticillium species.

27. (Previously Presented) The method of claim 26 wherein the fungal pathogen is Fusarium graminearum, Fusarium moniliforme, or Verticillium dahliae.

28. (Previously Presented) A recombinant host cell comprising a recombinant DNA construct encoding one or more antifungal proteins, wherein one of said antifungal proteins comprises the amino acid sequence as set forth in SEQ ID NO:4, and wherein said host cell further comprises a B.t. insecticidal protein.

29. (Previously Presented) The recombinant host cell of claim 28, wherein said host cell is selected from the group consisting of a bacterial cell, and a plant cell.

30. (Previously Presented) The recombinant host cell of claim 29, wherein said host cell is a plant cell.